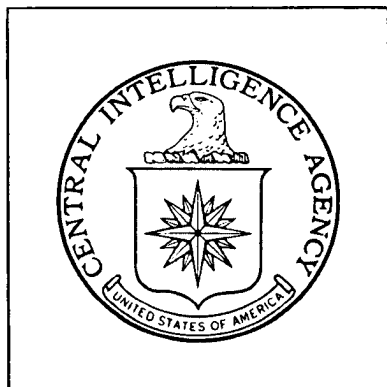


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**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Nonferrous Metals Plants

North Korea

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DATE APRIL 1971

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

ABSTRACT

This report, based on 1970 photography, updates the previous basic imagery interpretation reports on the three nonferrous metals plants in North Korea. The cut-off date for information in this report is November 1970.

No changes were observed at the Munchon Nonferrous Metals Plant or the Nampo Copper and Zinc Plant. A new possible smelting building was observed under construction at the Hungnam Nonferrous Metals Plant. All three plants were seen operating on the latest imagery.

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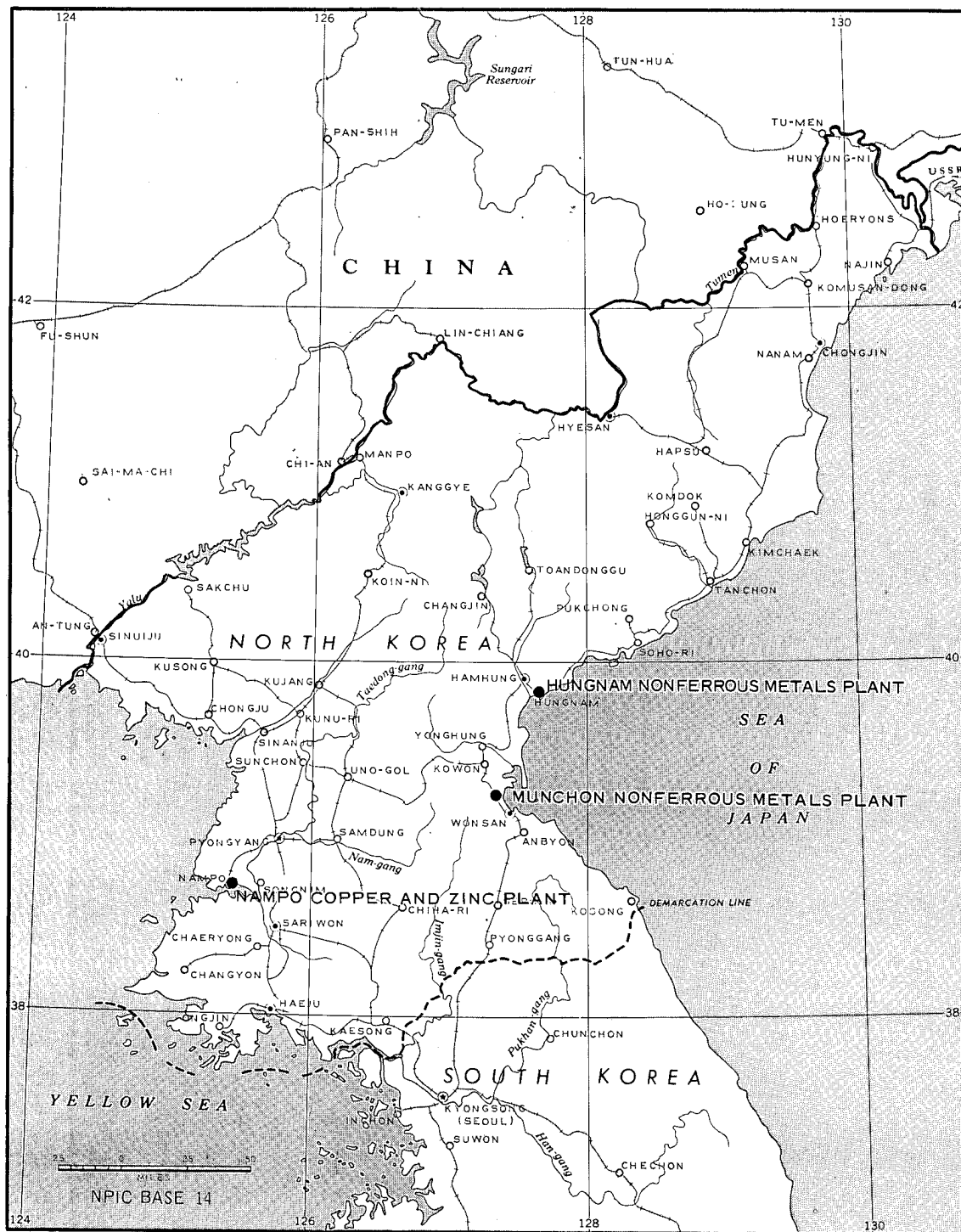


FIGURE 1. LOCATION MAP

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INTRODUCTION

This report covers the three nonferrous metals plants in North Korea (see Figure 1).

1. Hungnam Nonferrous Metals Plant (BE Name: Hungnam Copper Refinery)
2. Munchon Nonferrous Metals Plant
3. Nampo Copper and Zinc Plant

Requirement

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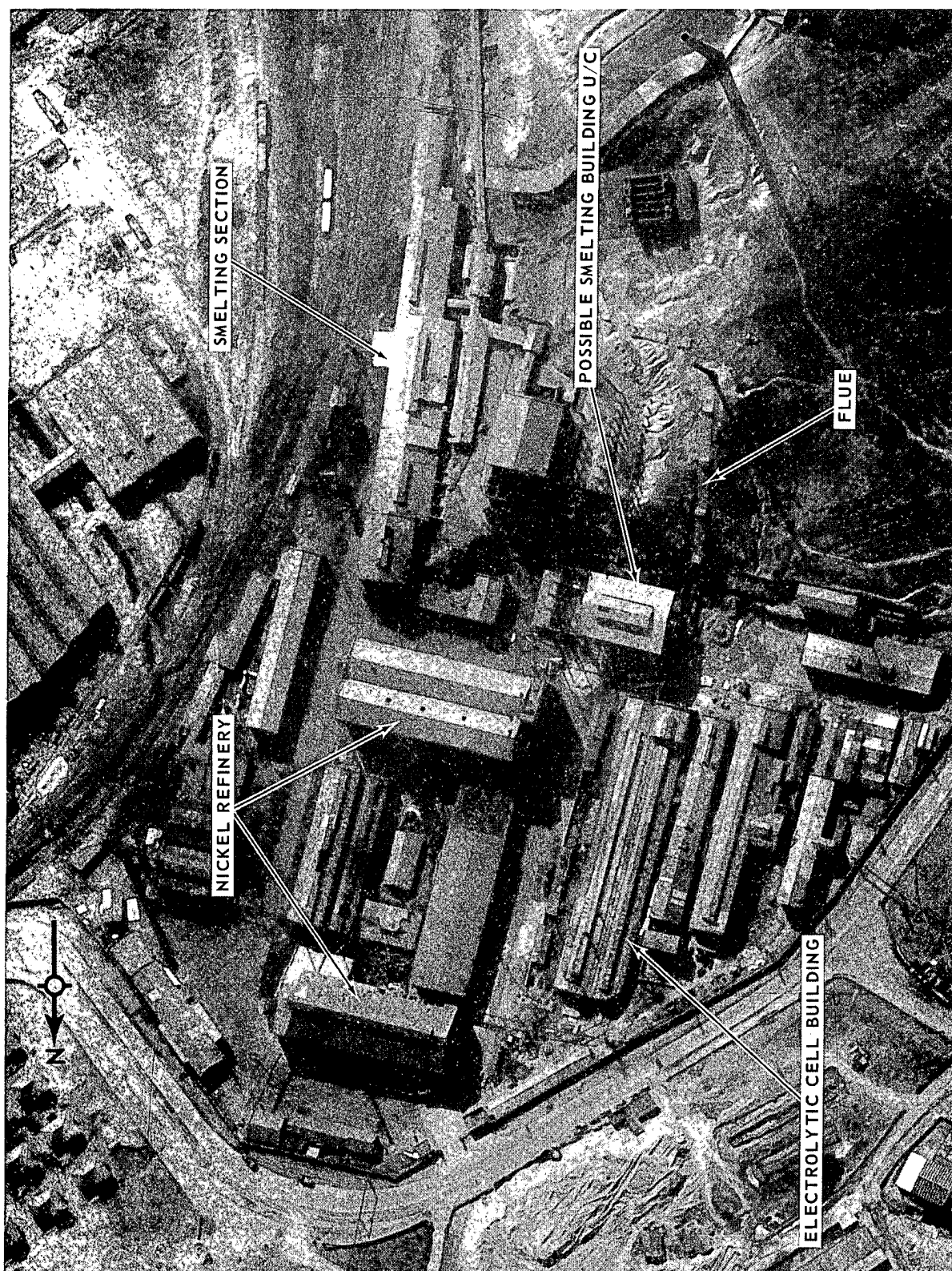
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FIGURE 2. HUNGNAM NONFERROUS METALS PLANT,

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TOP SECRET RUFF

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Hungnam Copper Refinery*		KN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
52SCV817100	39-49-55N 127-37-01E	
MAP REFERENCE		
548th RTG. USATC, Series 200, Sheet M0380-4HL, 4th ed, Apr 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

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*The installation name given in the data block is from the Basic Encyclopedia. The results of this study and the previous report indicate that the name should be Hungnam Nonferrous Metals Plant. The Hungnam Copper Refinery and the Hamhung Nickel Refinery are collocated as one nonferrous metals plant. Action has been initiated to have the Basic Encyclopedia corrected.

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BASIC DESCRIPTION

A possible smelting building has been identified under construction at the Hungnam Nonferrous Metals Plant (see Figure 2). Footings for this building were first seen in August 1969, the date of the latest photography used in the previous report. In November 1970, this building did not appear connected to the flue system immediately in front of it. No equipment had yet been installed in this building.

Smoke was coming from the large stack associated with the old smelting section in October 1969, and in September and November 1970. In September 1970, smoke was also observed emanating from the small stack associated with the electrolytic cell building. No smoke was observed at the plant in March 1970, indicating the smelters were not operating.

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Munchon Nonferrous Metals Plant

KN

UTM COORDINATES

GEOGRAPHIC COORDINATES

52SCU587457

39-15-17N 127-21-41E

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MAP REFERENCE

548th RTG. USATC, Series 200, Sheet M0380-4HL, 4th ed, Apr 68, Scale 1:200,000

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LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

No apparent changes have been observed at the Munchon Nonferrous Metals Plant since June 1969, the date of the latest photography used in the previous report.

The plant was operating in March 1970. Smoke was coming from the large stack associated with the lead smelter.

REFERENCES

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Document

CIA. RCS - 13/0011/70, Munchon Nonferrous Metals Plant, North Korea, November 1969, TOP SECRET RUFF)

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TOP SECRET RUFF

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Nampo Copper and Zinc Plant

KN

UTM COORDINATES

GEOGRAPHIC COORDINATES

51SYC114896

38-44-04N 125-26-04E

25X1

MAP REFERENCE

USNOO. USATC, Series 200. Sheet M0380-7HL. 4th ed. Nov 68. Scale 1:200,000

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LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

No changes have been observed at the Nampo Copper and Zinc Plant since August 1969, the date of the latest photography used in the previous report.

The plant was operating in September 1970. Smoke was coming from the large stack associated with the copper smelter.

REFERENCES

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Document

CIA. RCS - 13/0013/70, Nampo Copper and Zinc Plant, North Korea.
November 1969, (TOP SECRET RUFF)

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